DOCUMENT RESUME

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TITLE SCOPE (Standardized Curriculum-Oriented Pupil Evaluation) Mathematics. Test Book Grade Three.
INSTITUTION Northwest Territories Dept. of Education, Yellowknife. Programs and Evaluation Branch.
PUB DATE [81]
NOTE 102p.; For related documents, see RC 013 920-927. Dr. I.R. Brooks is the developer of the test, originally known as the Achievement Test of Indian Children (ATC).
PUB TYPE Tests/Evaluation Instruments (160)

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DESCRIPTORS *Arithmetic; Criterion Referenced Tests; Division; *Elementary School Mathematics; *Grade 3; Multiplication; Number Systems; Primary Education; Quantitative Tests; Test Items; Time
IDENTIFIERS Money; *Standardized Curriculum Oriented Pupil Evaluation

ABSTRACT

Following instructions provided in the teacher's manual, the SCOPE Mathematics Achievement Test booklet for grade 3 presents 11 mathematical concepts. Testing items include: skip counting by 2's, 5's, and 10's to 100, 3's to 30, and 4's to 40; writing number words to 20; identifying and naming 100's, 10's, and 1's in three-digit numerals; reading and writing numerals from 0 to 1,000; finding numbers before or after and between given numbers from 0 to 1,000; adding and subtracting two-digit and three-digit numbers; adding and subtracting multiples of 10 and 100; demonstrating mastery of basic multiplication and division facts to 40; and multiplying by multiples of 10 and 100. Other test items are: rounding off numbers to the nearest 10 and 100; understanding the associative property for multiplication; understanding properties of 0 and 1 in multiplication; recognizing patterns of odd and even numbers; counting money to $5; making purchases and giving change to $5; identifying and writing fractions (1/2 to 1/100); collecting data, constructing, and interpreting bar graphs; estimating and measuring area using non-standard and standard units; distinguishing between degrees above and below 0; telling time to the nearest 5 minutes, using noon, midnight, a.m., p.m.; constructing 2D shapes; and recognizing regular polygons. (ERB)

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Scope

Standardized Curriculum - Oriented Pupil Evaluation

MATHEMATICS

[1981]

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Test Book

Grade Three

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Northwest Territories Education

RC013923

1.2 Skip counts by 2's to 100. Skip counts by 3's to 30, 4's to 40, 5's to 100, 10's to 100.

Look at these numbers. Which numbers are missing. The numbers 8, 10 and 12 are missing. Write these numbers in the spaces.

Look at these questions. Write the missing numbers in the spaces. Stop when you come to the stop sign.

2, 4, 6, ____, ____, ____

1

38, 40, 42, _____, _____, _____

1

2

3, 6, 9, _____, _____, _____

3

30, 40, 50, _____, _____, _____

4

25, 30, 35, _____, _____, _____

5

20, 24, 28, _____, _____, _____

6

8, 12, 16, _____, _____, _____

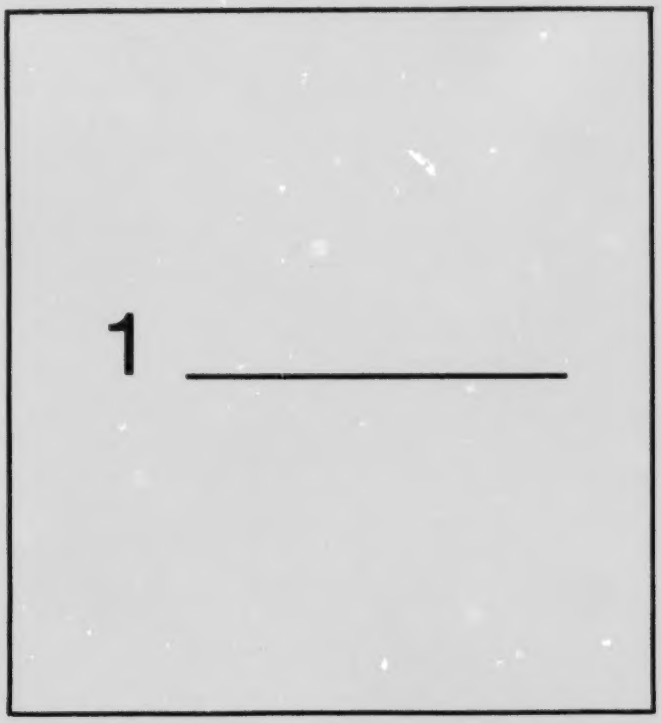
7

15, 18, 21, _____, _____, _____

1.3 Writes number words to twenty.

Look at this number. What is the word for this number? The word is "one". Write the word "one" on the line.

Write the words that go with each of these numbers. Stop when you come to the stop sign.



8

9

20 _____

10

14 _____

11

19 _____

12

12 _____

13

16 _____

14

11 _____

STOP

10

1.4 Identifies and names the number of hundreds, tens and ones in a 3 digit numeral.

Look at this number. How many "ones" in 162? There are two "ones". Write your answer in the space.

Answer these questions. Be careful to look to see if the question asks for hundreds or tens or ones.

Stop when you come to the stop sign.

162 _____ones

15

143 _____tens

16

670 _____hundreds

17

952 _____tens

12

18

324 _____hundreds

19

876 _____ones

20

916 _____hundreds

21

400 _____tens

STOP

14

1.5 Reads and writes numerals in sequence from 0 to 1000.
Finds the number before or after a given number from 0 to 1000.
Finds a number between two given numbers from 0 to 1000.

Look at these numbers. Which numbers are missing? The numbers 120 and 121 are. Write the missing numbers in the spaces.

Write the missing numbers in the spaces for these questions. Stop when you come to the stop sign.

118, 119, ____, ____, 122

22

195, 196, _____, _____, 199

23

233, 234, _____, 236, _____

24

998, _____, _____, 1001, 1002

25

890, 891, _____, 893, _____, 895

26

799, _____, 801, 802, _____, 804

27

249, _____, 251, _____, 253, 254

28

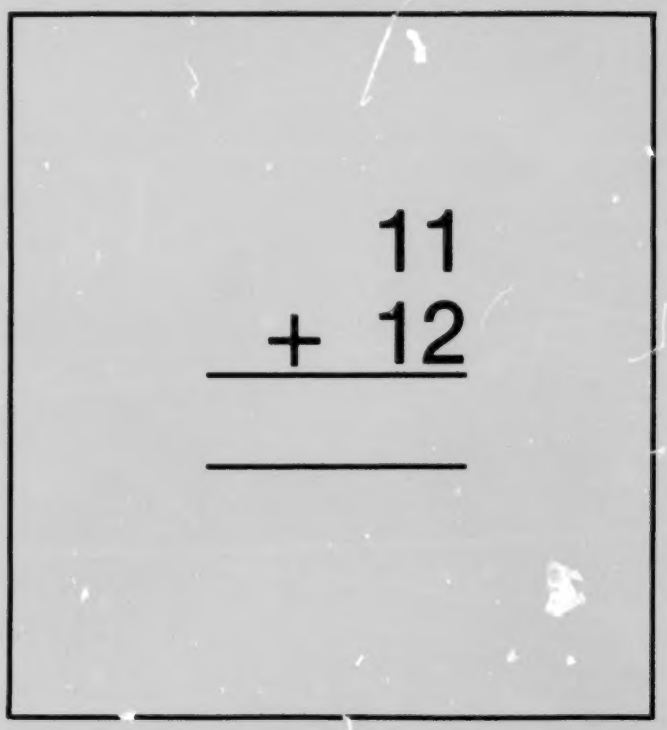
_____, 500, _____, 502, 503

STOP

2.1a Adds (and subtracts) two digit numbers with regrouping.

Look at this question. What is the answer? The answer is 23. Put the answer in the space below the question.

Answer these questions. Stop when you come to the stop sign.



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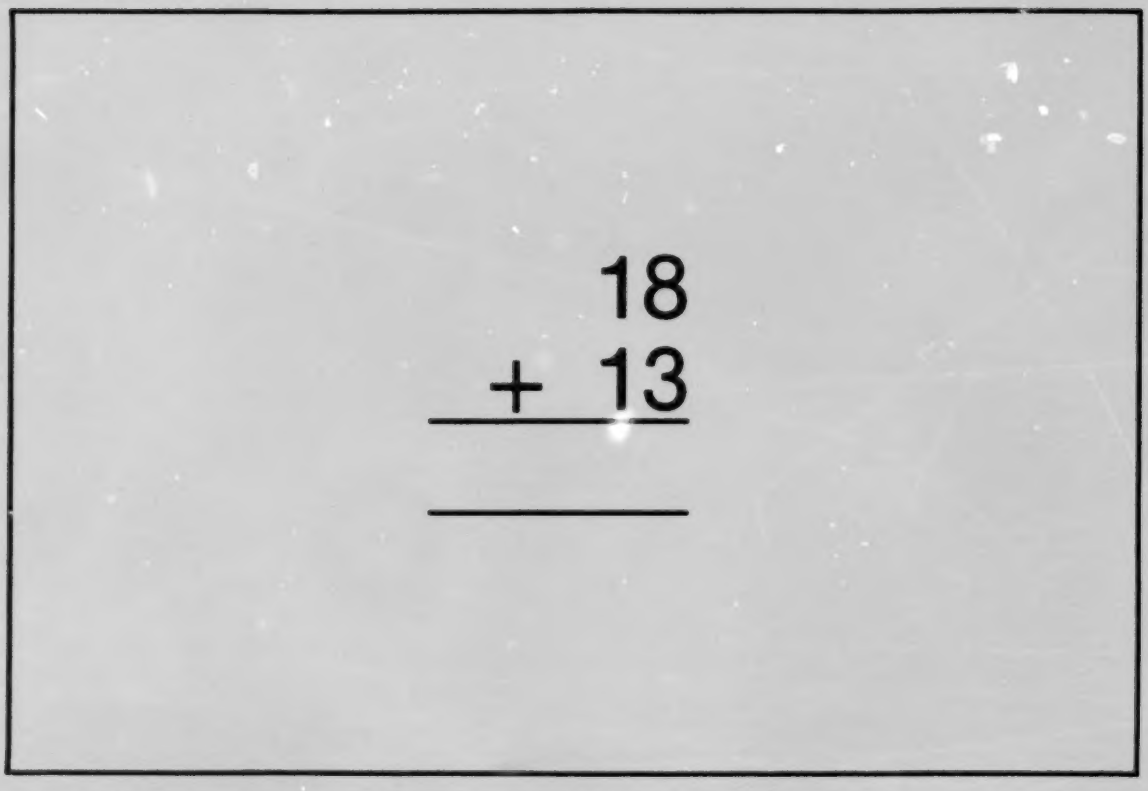


30

$$\begin{array}{r} 16 \\ +\ 95 \\ \hline \\ \hline \end{array}$$

31

$$\begin{array}{r} 98 \\ +\ 42 \\ \hline \\ \hline \end{array}$$

32

$$\begin{array}{r} 76 \\ +\ 27 \\ \hline \\ \hline \end{array}$$

33

$$\begin{array}{r} 67 \\ +\ 87 \\ \hline \\ \hline \end{array}$$

34

$$\begin{array}{r} 26 \\ +\ 33 \\ \hline 89 \\ \hline \end{array}$$

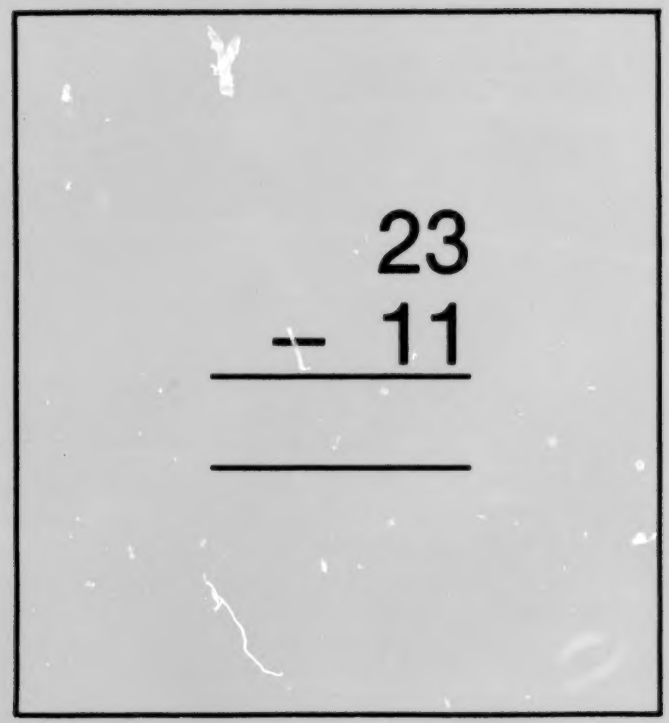
35

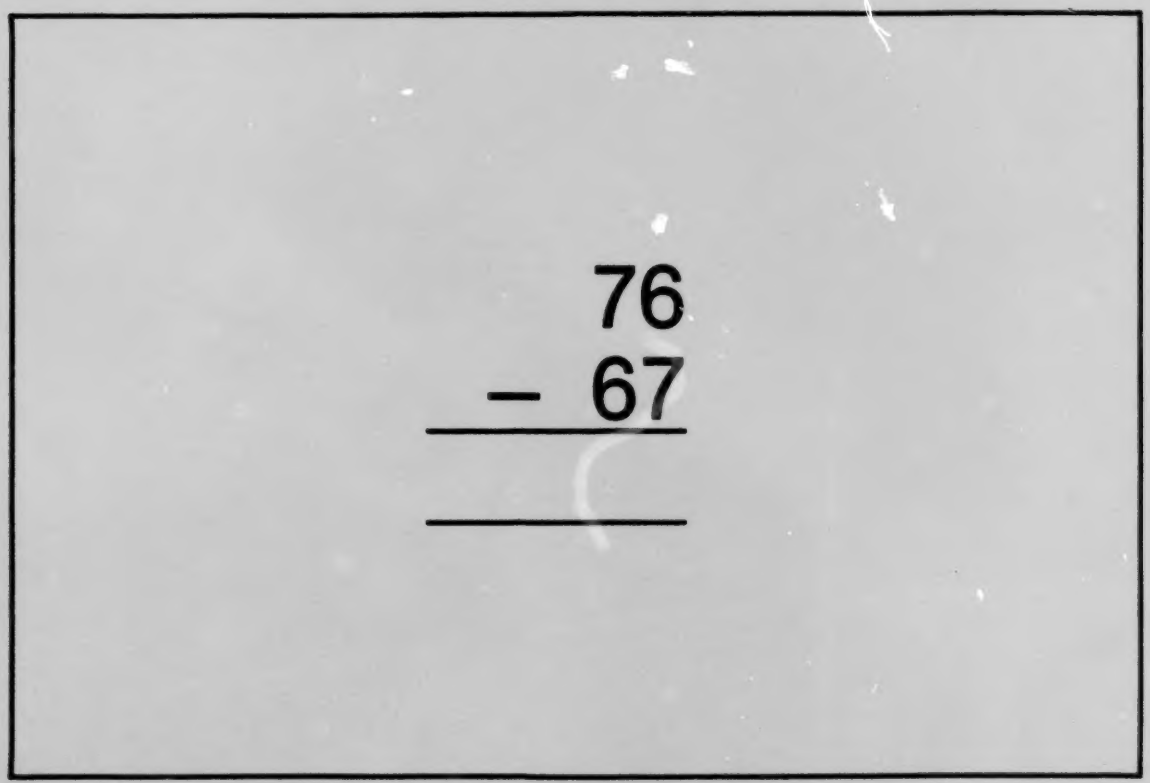
$$\begin{array}{r} 14 \\ +\ 30 \\ \hline 90 \\ \hline \end{array}$$

2.1b (Adds and) subtracts two digit numbers with regrouping.

Look at this question. What is the answer? The answer is 12. Put the answer in the space below the question.

Answer these questions. Stop when you come to the stop sign.





36

37

$$\begin{array}{r} 82 \\ -\ 78 \\ \hline \\ \hline \end{array}$$

38

$$\begin{array}{r} 65 \\ -\ 48 \\ \hline \\ \hline \end{array}$$

39

$$\begin{array}{r} 67 \\ -\ 28 \\ \hline \\ \hline \end{array}$$

40

$$\begin{array}{r} 50 \\ -\ 49 \\ \hline \\ \hline \end{array}$$

41

$$\begin{array}{r} 85 \\ -\ 29 \\ \hline \\ \hline \end{array}$$

42

$$\begin{array}{r} 72 \\ -\ 54 \\ \hline \\ \hline \end{array}$$

2.1c Adds (and subtracts) three digit numbers without regrouping.

Look at this question. What is the answer? The answer is 233. Put the answer in the space below the question.

Answer these questions. Stop when you come to the stop sign.

$$\begin{array}{r} 111 \\ +\ 122 \\ \hline \\ \hline \end{array}$$

43

$$\begin{array}{r} 125 \\ +\ 342 \\ \hline \\ \hline \end{array}$$

44

$$\begin{array}{r} 382 \\ +\ 607 \\ \hline \\ \hline \end{array}$$

45

$$\begin{array}{r} 200 \\ +\ 499 \\ \hline \\ \hline \end{array}$$

46

$$\begin{array}{r} 641 \\ +\ 153 \\ \hline \\ \hline \end{array}$$

47

$$\begin{array}{r} 675 \\ +\ 203 \\ \hline \\ \hline \end{array}$$

48

$$\begin{array}{r} 122 \\ +\ 703 \\ \underline{\quad 70} \\ \\ \hline \end{array}$$

49

$$\begin{array}{r} 124 \\ +\ 416 \\ \underline{\quad 222} \\ \\ \hline \end{array}$$

STOP

30

2.1d (Adds and) subtracts three digit numbers without regrouping.

Look at this question. What is the answer. The answer is 121. Put the answer in the space below the question.

Answer these questions. Stop when you come to the stop sign.

$$\begin{array}{r} 233 \\ -\ 112 \\ \hline \\ \hline \end{array}$$

50

$$\begin{array}{r} 569 \\ -\ 356 \\ \hline \\ \hline \end{array}$$

51

$$\begin{array}{r} 799 \\ -\ 372 \\ \hline \\ \hline \end{array}$$

52

$$\begin{array}{r} 678 \\ -\ 508 \\ \hline \\ \hline \end{array}$$

53

$$\begin{array}{r} 976 \\ -\ 364 \\ \hline \\ \hline \end{array}$$

54

$$\begin{array}{r} 259 \\ -\ 124 \\ \hline \\ \hline \end{array}$$

55

$$\begin{array}{r} 707 \\ -\ 203 \\ \hline \\ \hline \end{array}$$

56

$$\begin{array}{r} 852 \\ -\ 612 \\ \hline \\ \hline \end{array}$$

2.1e Adds and subtracts multiples of 10 and 100.

Look at this question. What is the answer? The answer is 20. Put the answer in the blank space.

Answer these questions. Stop when you come to the stop sign.

$10 + 10 = _____$

57

$20 + 10 = _____$

58

$$40 - 20 = _____$$

59

$$30 + 40 = _____$$

60

$$60 - 50 = _____$$

61

$$400 - 300 = _____$$

62

$200 + 400 = _____$

63

$500 - 300 = _____$

2.2a Demonstrates mastery of basic multiplication facts to 40.

Look at this question. What is the answer? The answer is 25. Write the answer in the space.

Answer these questions. Stop when you come to the stop sign.

$5 \times 5 = _____$

64

$7 \times 5 = _____$

65

$8 \times 4 = _____$

66

$6 \times 5 = _____$

67

$4 \times 7 = _____$

68

$2 \times 11 = _____$

69

$3 \times 10 = _____$

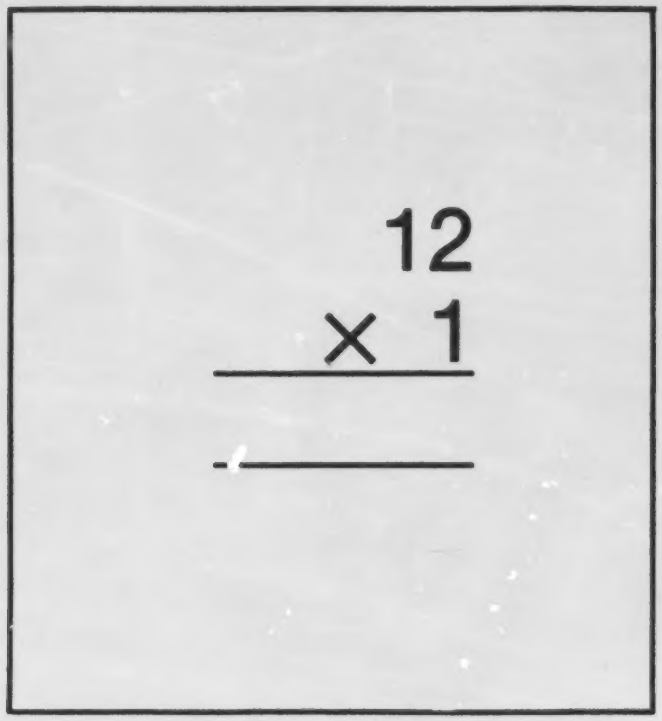
70

$2 \times 12 = _____$

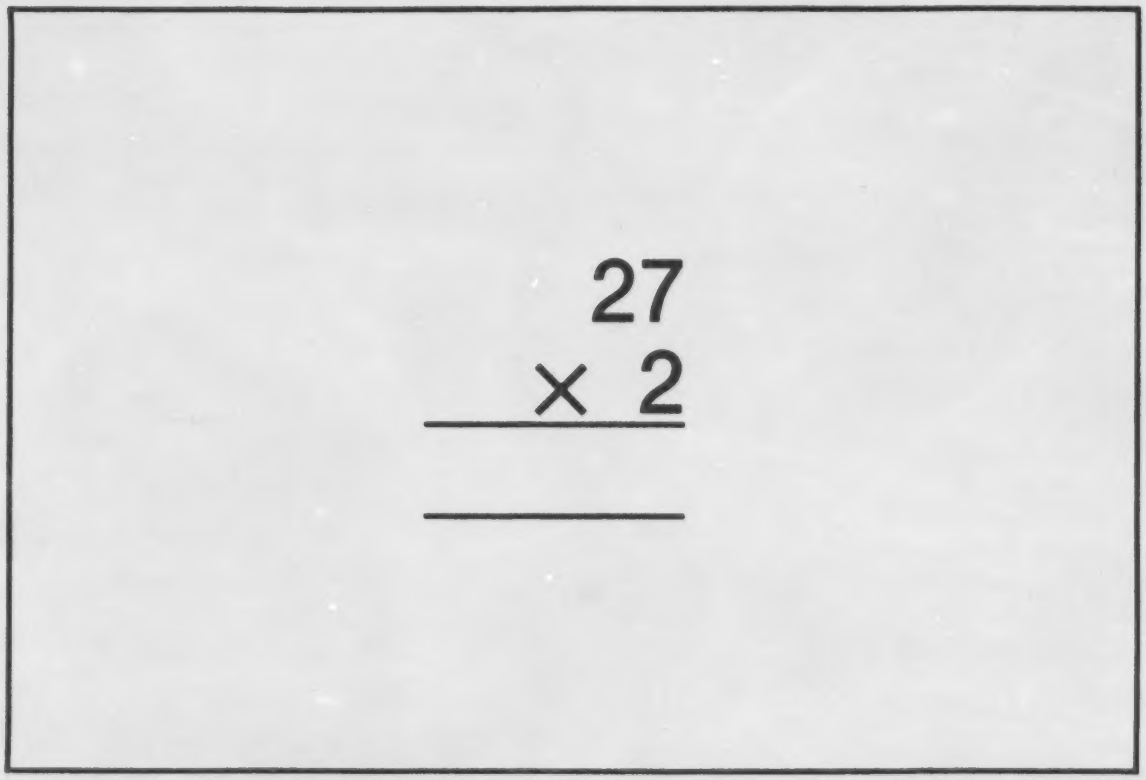
2.2b Multiplies, with regrouping, up to a 2 digit factor by a one digit factor.

Look at this question. What is the answer? The answer is 12. Put 12 in the space below the question.

Answer these questions. Stop when you come to the stop sign.



71



72

$$\begin{array}{r} 36 \\ \times\ 3 \\ \hline \\ \hline \end{array}$$

73

$$\begin{array}{r} 24 \\ \times\ 6 \\ \hline \\ \hline \end{array}$$

74

$$\begin{array}{r} 69 \\ \times\ 2 \\ \hline \\ \hline \end{array}$$

75

$$\begin{array}{r} 18 \\ \times\ 3 \\ \hline \\ \hline \end{array}$$

76

$$\begin{array}{r} 22 \\ \times\ 8 \\ \hline \\ \hline \end{array}$$

77

$$\begin{array}{r} 59 \\ \times\ 7 \\ \hline \\ \hline \end{array}$$

2.2c Multiplies by multiples of 10 and 100.

Look at this question. What is the answer? The answer is 20. Write the answer in the space.

Answer these questions. Stop when you come to the stop sign.

$2 \times 10 = _____$

78

$8 \times 10 = _____$

79

$10 \times 40 = _____$

80

$3 \times 200 = _____$

81

$6 \times 500 = _____$

82

$9 \times 800 = _____$

83

$8 \times 70 = _____$

84

$10 \times 500 = _____$

STOP

2.2d Estimates products by rounding off.

Look at this question. This time we are NOT going to work out the answer. We will ESTIMATE the answer to the nearest ten.

The estimated answer rounded off to the nearest ten is 20.

Write the answer in the space provided.

Answer these questions. ESTIMATE the answers to THE NEAREST TEN. Write the answers in the space provided. Stop when you come to the stop sign.

$$\begin{array}{r} 11 \\ \times\ 2 \\ \hline \end{array}$$

Estimated answer: _____

85

$$\begin{array}{r} 22 \\ \times\ 3 \\ \hline \\ \hline \end{array}$$

Estimated answer: _____

86

$$\begin{array}{r} 33 \\ \times\ 3 \\ \hline \\ \hline \end{array}$$

Estimated answer: _____

87

$$\begin{array}{r} 24 \\ \times\ 8 \\ \hline \\ \hline \end{array}$$

Estimated answer: _____

88

$$\begin{array}{r} 38 \\ \times\ 3 \\ \hline \\ \hline \end{array}$$

Estimated answer: _____

89

$$\begin{array}{r} 9 \\ \times\ 9 \\ \hline \\ \hline \end{array}$$

Estimated answer: _____

90

$$\begin{array}{r} 17 \\ \times\ 2 \\ \hline \\ \hline \end{array}$$

Estimated answer: _____

91

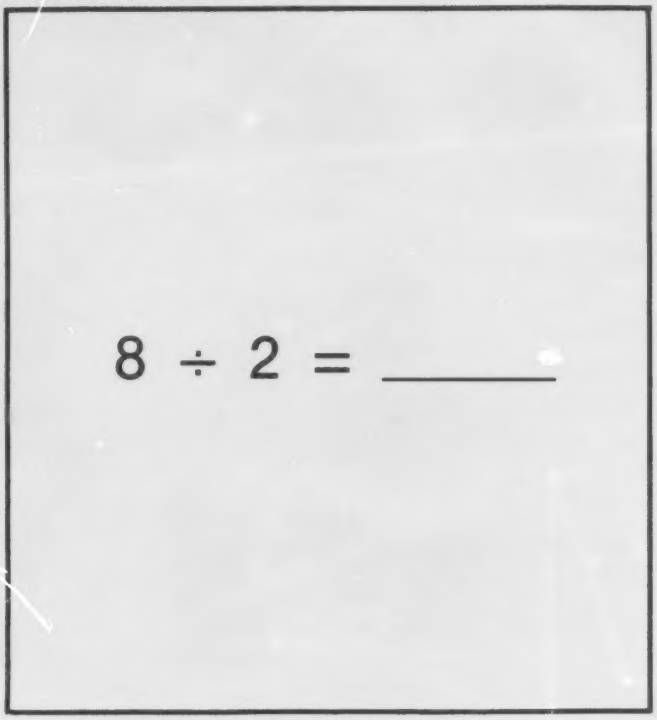
$$\begin{array}{r} 48 \\ \times\ 4 \\ \hline \\ \hline \end{array}$$

Estimated answer: _____

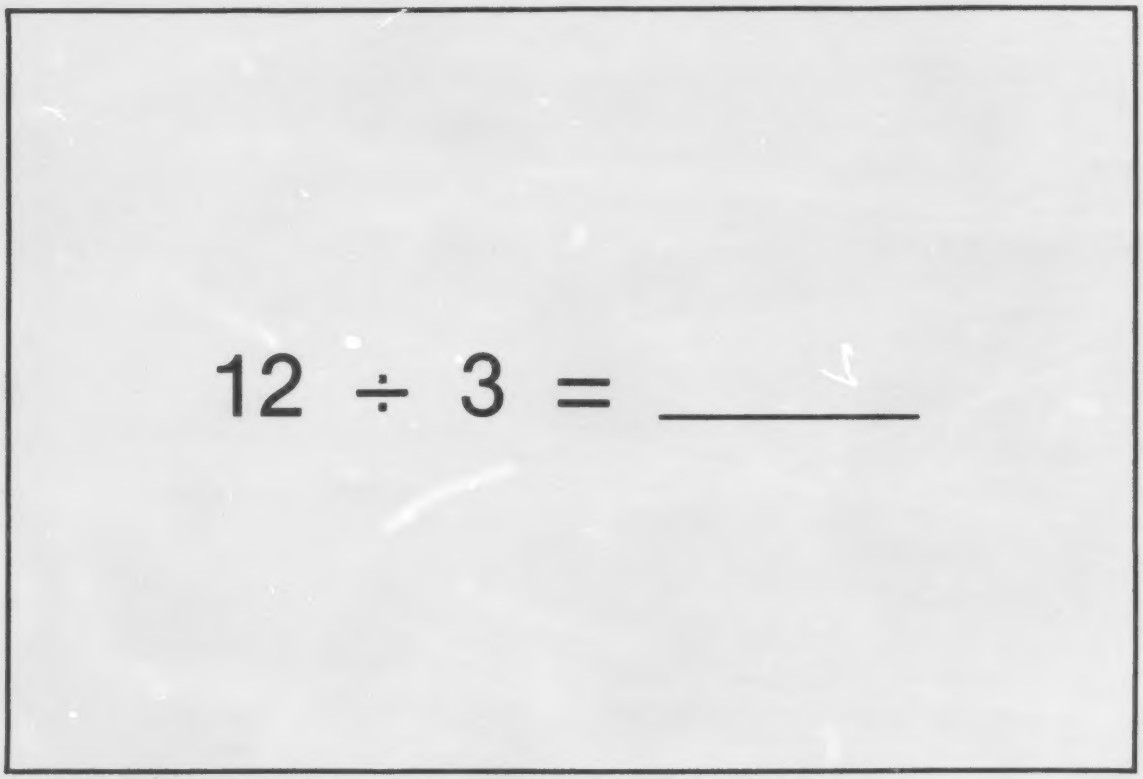
2.3 Introduces symbol ÷
Demonstrates mastery of basic division facts to 40.

Look at this question. What is the answer? The answer is 4. Write the answer in the space.

Answer these questions. Stop when you get to the stop sign.



92



93

$24 \div 2 = _____$

94

$36 \div 4 = _____$

95

$35 \div 5 = _____$

96

$27 \div 9 = _____$

97

$20 \div 10 =$ _____

98

$30 \div 6 =$ _____

STOP

58

3.1 Rounds off numbers to nearest 10 and 100.

Look at this number. What is 122 rounded off to the nearest TEN? The answer is 120. Write the answer in the space.

Look at these numbers. Round them off to the nearest TEN or HUNDRED as indicated. Stop when you come to the stop sign.

122

Rounded off to the nearest 10 = _____

99

321 Rounded off to the nearest 10. _____

59

100

865 Rounded off to the nearest 10. _____

101

942 Rounded off to the nearest 10. _____

102

3578 Rounded off to the nearest 100. _____

103

34891 Rounded off to the nearest 100. _____

104

49882 Rounded off to the nearest 100. _____

105

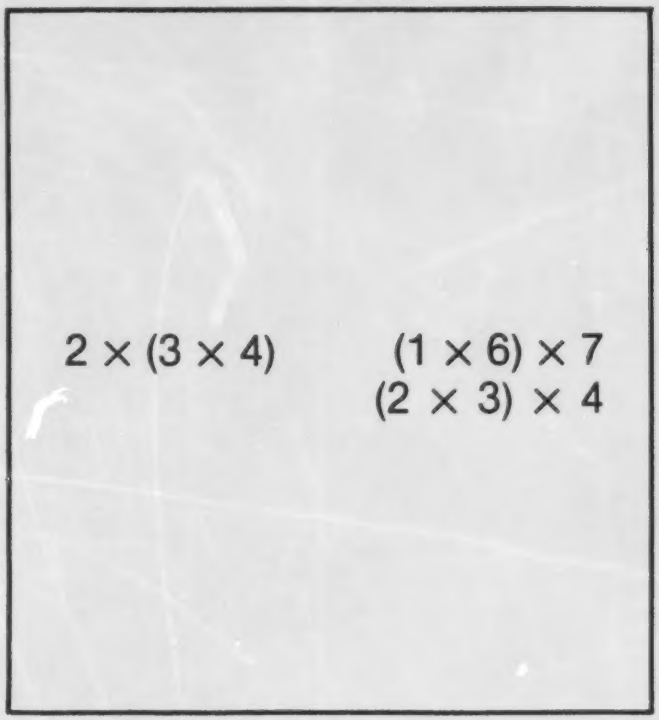
10052 Rounded off to the nearest 100. _____

STOP

4.2 Understands associative property for multiplication.

Look at this set of numbers. Which of these two means the same thing as 2 × (3 × 4)? Draw a line from this one to the one that means the same.

Look at these numbers. Draw a line from each of these to one on this side that is the same.



106 $2 \times (5 \times 6)$

107 $(9 \times 1) \times 7$

108 $(4 \times 3) \times 8$

109 $7 \times (2 \times 4)$

9×7

$2 \times (8 \times 3)$

14×4

10×6

$4 \times (3 \times 8)$

$(4 \times 9) \times 5$

Look at these numbers.
Draw a line from each of these to one on this side that means the same.

110 $(5 \times 1) \times 8$

111 $(9 \times 3) \times 2$

112 $2 \times (4 \times 6)$

$9 \times (2 \times 4)$

9×6

$7 \times (6 \times 4)$

5×8

$(2 \times 4) \times 6$

STOP

64

4.3 Understands the property of zero in multiplication.

4.4 Demonstrates the property of one in multiplication.

Look at this question. What is the answer? The answer is zero. Write the answer in the space.

Answer these questions. Stop when you come to the stop sign.

$1 \times 0 = _____$

113

$13 \times 0 = _____$

114

$8 \times 0 = _____$

115

$5 \times 1 = _____$

116

$7 \times 0 = _____$

117

$19 \times 1 = _____$

118

$6 \times 1 = _____$

119

$12 \times 0 = _____$

5.2 Recognizes the pattern of odd and even numbers.

Look at these two numbers. What are the odd numbers between 1 and 7? They are 3 and 5. Write the answers in the space.

Answer these questions. Stop when you come to the stop sign.

1_____7

Write the even numbers between 22 and 30.

120

22_____30

121

Write the odd numbers between 11 and 19.

11 _____ 19

122

Write the even numbers between 32 and 40.

32 _____ 40

123

Write the odd numbers between 21 and 29.

21 _____ 29

124

Write the odd numbers between 45 and 53.

45 _____ 53

125

Write the <u>even</u> numbers between 14 and 22.

14 _____ 22

126

Write the <u>odd</u> numbers between 29 and 37.

29 _____ 37

6.1a Counts money to $5.00.

Look at this money. How much is there altogether? There are $3.00. Write the answer in the space.

Count the money in these questions. Write the amount in the spaces. Stop when you come to the stop sign.

$_____

127

$_____

BEST COPY AVAILABLE

128

$_____

129

$_____

BEST COPY AVAILABLE

130

$_____

131

$_____

75 BEST COPY AVAILABLE

132

$_____$

133

$_____$

STOP

76

BEST COPY AVAILABLE

6.1b Makes purchases and gives change to $5.00.

Look at this problem. (Read it aloud). How much money should Bob get back? The answer is $0.60. Write the answer in the space.

Read these questions. Write your answers in the space. Stop when you come to the stop sign.

Bob has $1.00
He spends $0.40

He gets _____ change.

134

Ann has $2.00
She spends $0.69

She gets _____ change.

135

Bill has $3.00
He spends $1.26

He gets _____ change.

136

Susan has $3.75
She spends $3.58

She gets _____ change.

137

Andy has $5.00
He spends $2.10

He gets _____ change.

138

Mary has $4.50
She spends $4.17

She gets _____ change.

139

Sam has $4.40
He spends $3.36

He gets _____ change.

140

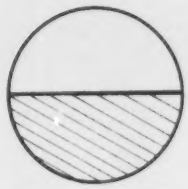
Lucy has $5.00
She spends $4.12

She gets _____ change.

STOP

7.1 Identifies and writes fractions, 1/2, 1/3, 1/4, 2/4, 3/4, 1/10, 1/100 as a representation of part of a whole or a group

Look at this shape. How much of it is black? One-half. Write a fraction in the space to show how much of the shape is black.



_____

141

Look at this shape.
Write a fraction in the space to show how much is black.

_____

142 *Look at this shape.*
Write a fraction in the space to show how much is black.

_____

143 *Look at these fish.*
Write a fraction in the space to show how many of them are circled.

_____

144

Look at these caribou.
Write a fraction in the space to show how many of them are circled.

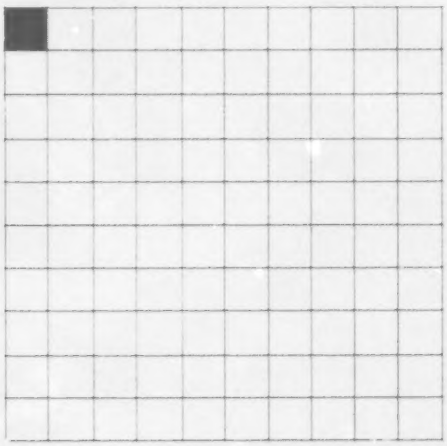
_____

145

Look at these caribou.
Write a fraction in the space to show how many of them are circled.

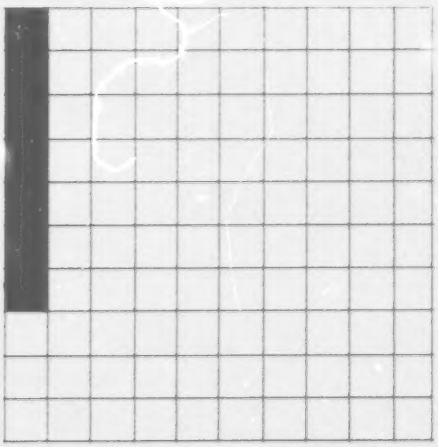
_____

146 *Look at these boxes.*
Write a fraction in the space to show how many are black.



_____

147 *Look at these boxes.*
Write a fraction in the space to show how many are black.



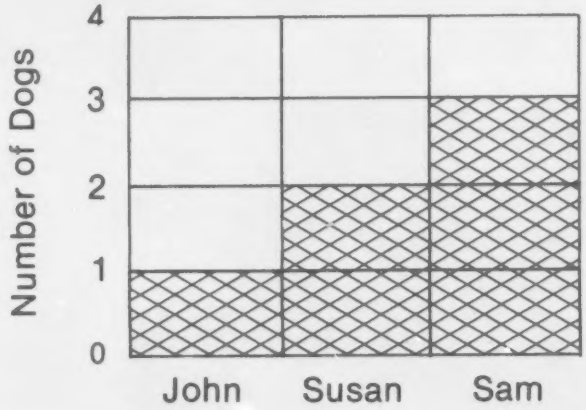
_____

STOP

84

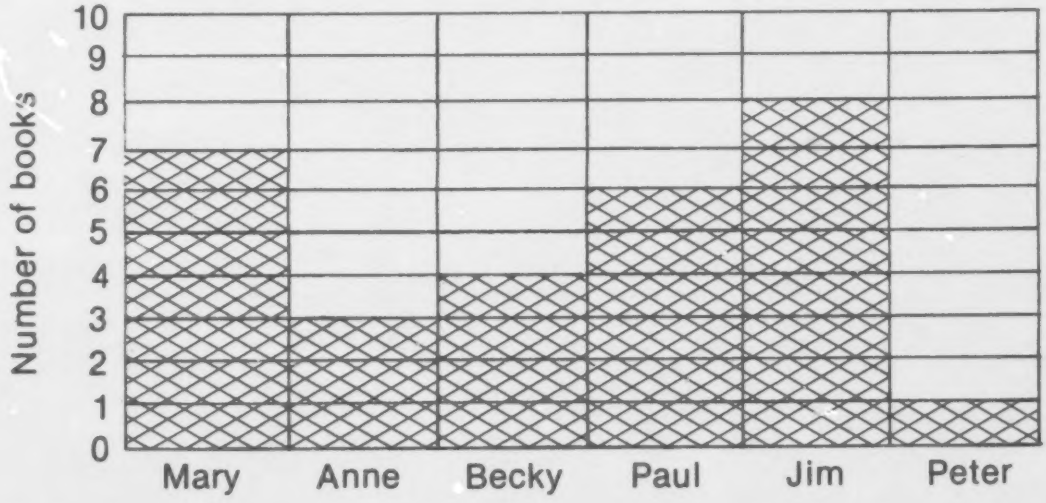
9.1 (Collects data, constructs, and) interprets bar graphs.

Look at this bar graph. From this group you can tell how many dogs John, Susan and Sam have. How many dogs does Sam have? He has three dogs. Write "3" in the space.



Sam has _____ dogs.

Look at this bar graph and these questions. Use the bar graph to find the answers. Write your answers in the spaces.

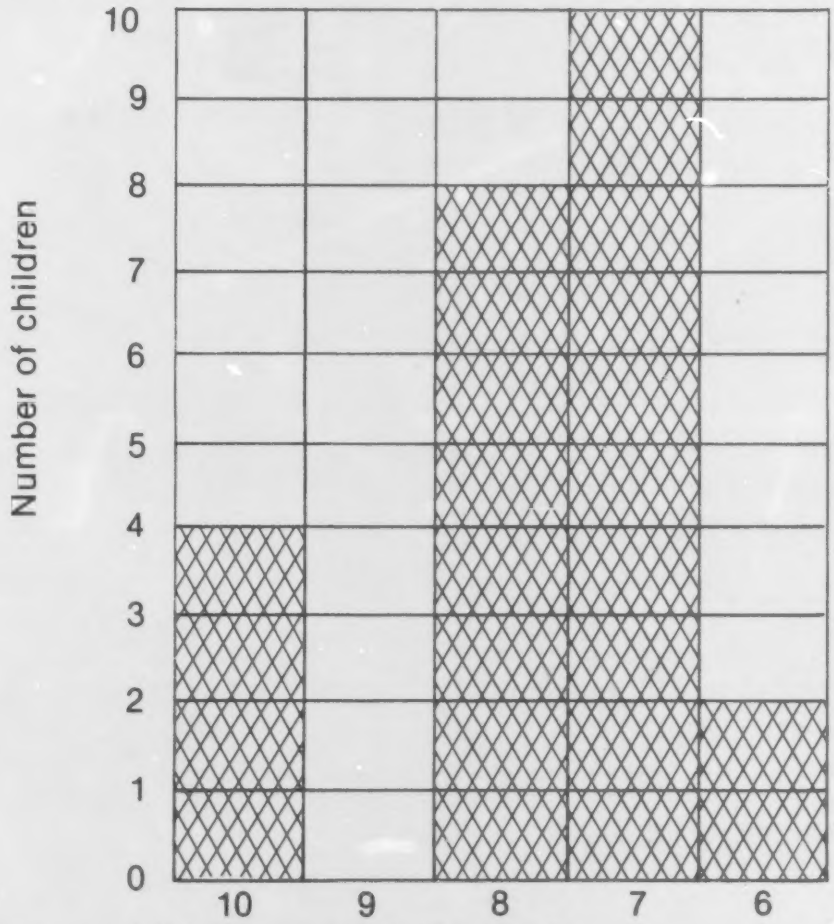


148 Who has the most books? _____

149 Who has the fewest books? _____

150 Who has three books? _____

Look at this bar graph and these questions. Use the bar graph to find the answers to the questions. Write your answers in the spaces.



151 How many children are aged 10 years? _____

152 Are more children 6 or 7? _____

153 How many children are 9? _____

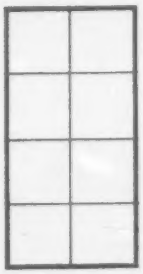
154 Are more children 8 or 10? _____

STOP

10.2 Estimates and measures area using non-standard and standard units (limit: cm², m²), without using formulae.

Look at this shape. What is its area. Each square equals one square metre. The area of the shape is eight square metres.

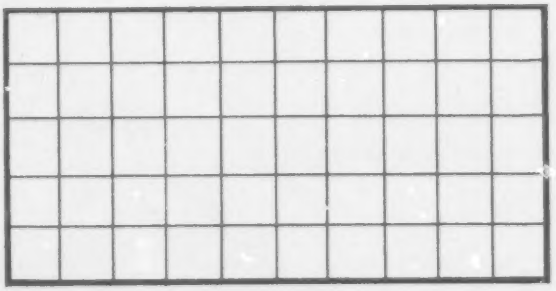
Look at these questions. Find the area of each shape. Write your answer in the space. Stop when you come to the stop sign.



_____

1 square = 1 m²

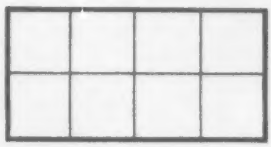
155



_____

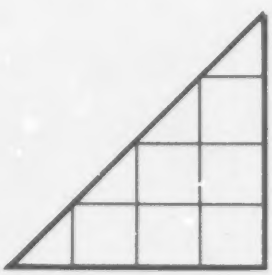
156

1 square = 1 cm²



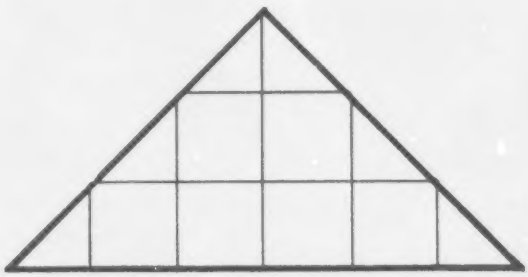
157

1 square = 1 cm²



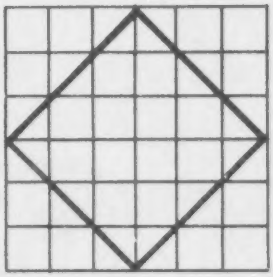
158

1 square = 1 cm²



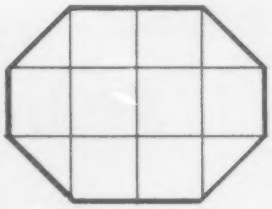
159

1 square = 1 m²



160

1 square = 1 cm^2



161

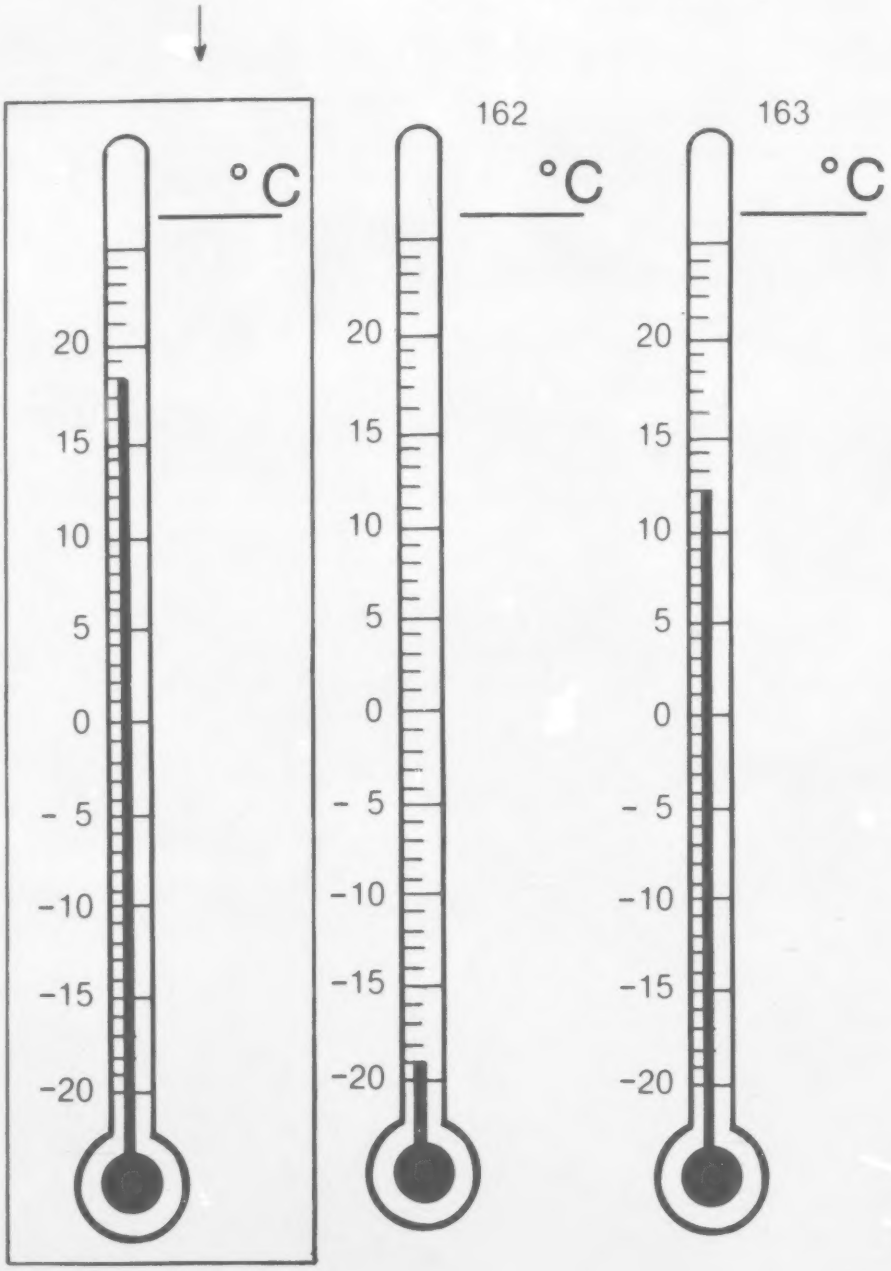
1 square = 1 m^2

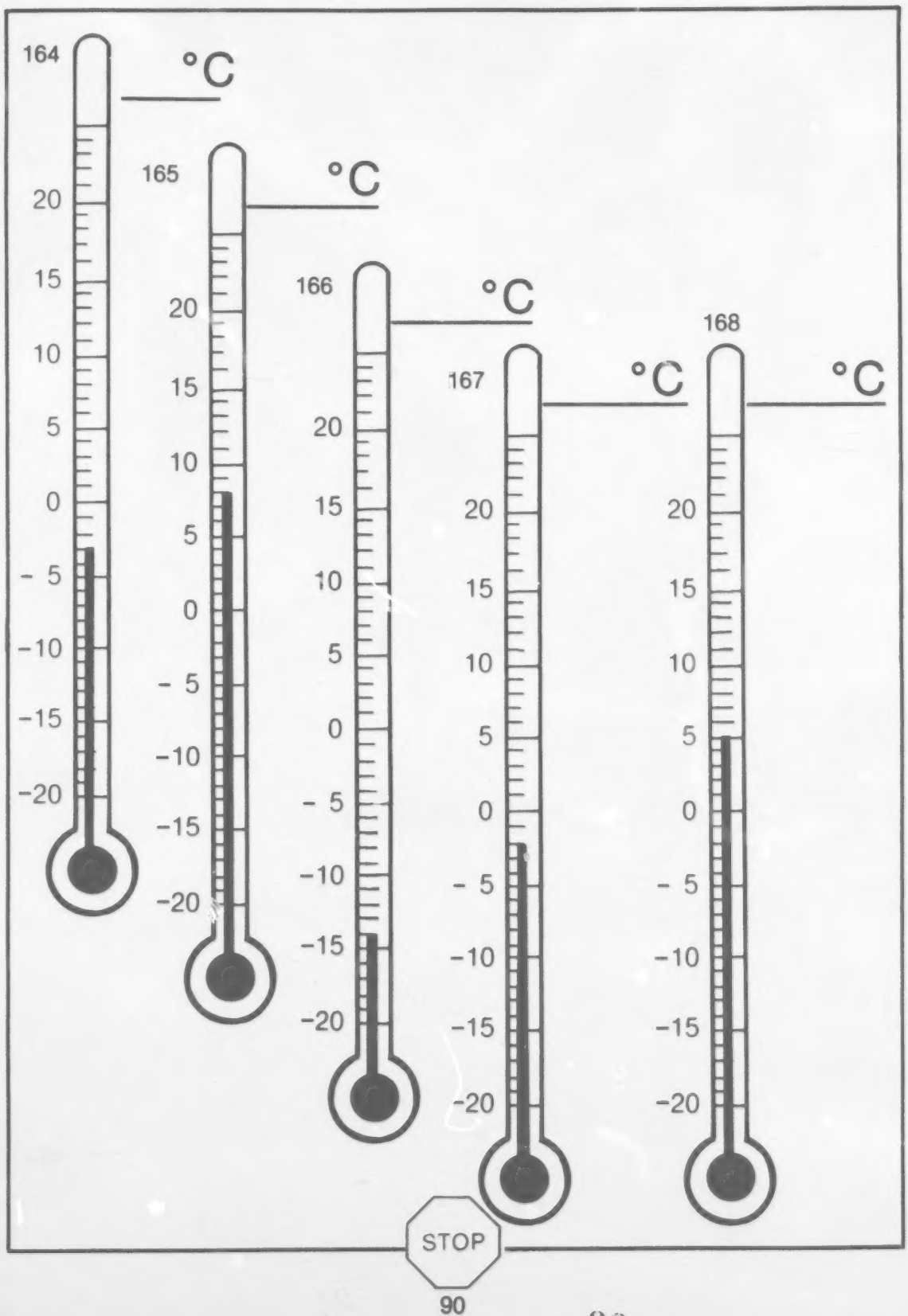
STOP

10.6 Distinguishes between degrees above and below zero.

Look at this thermometer. What temperature is shown? The temperature is 18°C. Write the temperature in the space.

Look at these thermometers. What temperatures do they show? Write the temperatures in the spaces. Stop when you come to the stop sign.




164
°C
20
15
10
5
0
- 5
-10
-15
-20
165
°C
20
15
10
5
0
- 5
-10
-15
-20
166
°C
20
15
10
5
0
- 5
-10
-15
-20
167
°C
20
15
10
5
0
- 5
-10
-15
-20
168
°C
20
15
10
5
0
- 5
-10
-15
-20
STOP
90

10.7 Tells time to the nearest five minutes. Uses noon, midnight, a.m., p.m.

Look at the clock. What time does this clock say? It says ten past eleven. Write the time in the space.

Look at these clocks. Write the time shown by each clock in the spaces. Stop when you come to the stop sign.

169

170

171

94

172

173

174 *When the clock looks like this and you are eating your lunch what time is it? Circle the correct answer.*

Noon Midnight

175 *When the clock looks like this and you are sleeping, what time is it? Circle the correct answer.*

Noon Midnight

STOP

11.2a Constructs 2D shapes.

In this box, let's draw a circle.

Draw a square here.

176

177 *Draw a triangle here.*

178 *Draw a rectangle here.*

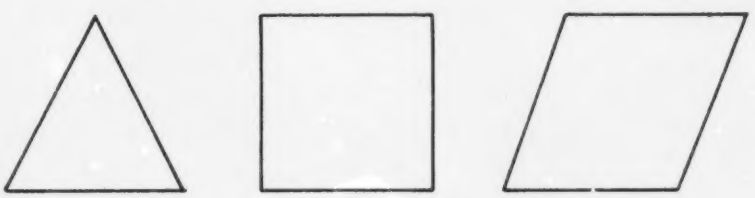
STOP

11.2b Recognizes regular polygons.

Look at these shapes. Let's put an X on the circle.

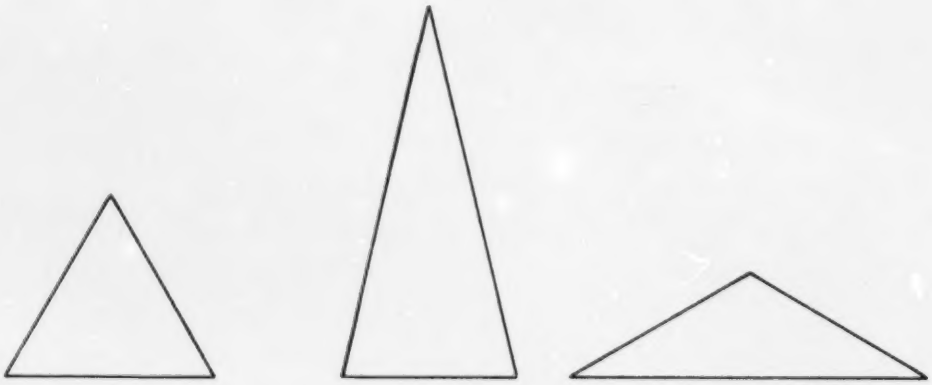
Look at these shapes. Put an X on the square.

179



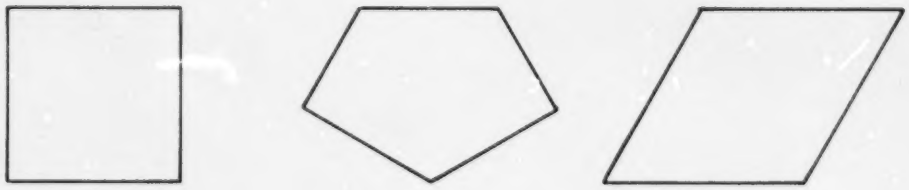
180

Look at these shapes. Put an X on the equilateral triangle.



181

Look at these shapes. Put an X on the pentagon.

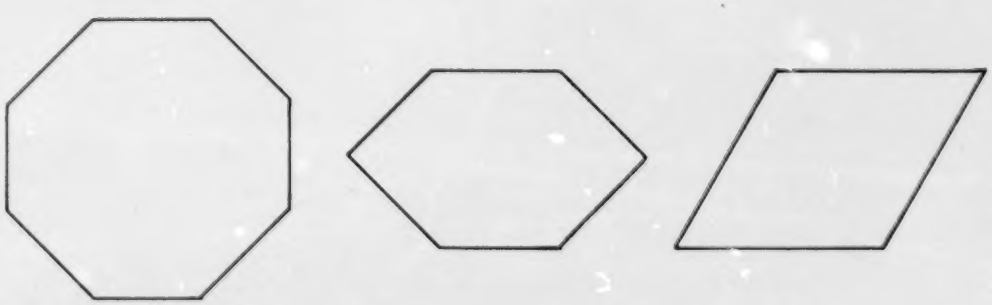


182

Look at these shapes. Put an X on the rhombus.

183

Look at these shapes. Put an X on the hexagon.



STOP

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